

CLAIMS

What is claimed is:

1. A transmission mechanism for a dynamic ornament comprising a housing, a
5 motor, a transmission seat assembly and a transmission device, the housing comprising a base, the motor being fixed to the base with a motor shaft extending therefrom, the transmission seat assembly being fixed to the base and comprising a pair of first seats connected to the base, the transmission device being connected to the transmission seat assembly and comprising a
10 sliding set and a gear set, the sliding set comprising a pair of mating portions, a pair of connecting portions respectively connecting with the mating portions, a pair of eccentrics and a transmission shaft connected between the eccentrics, the mating portions being respectively slidable along the first seats, a mating hole being defined in each of the mating
15 portions for rotatably receiving the eccentric therein, the transmission shaft being rotatably connected to the transmission seat assembly, the connecting portions extending through the base, and the gear set connecting between the motor and the transmission shaft of the sliding set thereby driving the transmission shaft to rotate.
- 20 2. The transmission mechanism for a dynamic ornament as claimed in claim 1, wherein the housing comprises a first cover threadedly fixed to the base, and a receiving post extends from the first cover.
3. The transmission mechanism for a dynamic ornament as claimed in claim 1, wherein the transmission seat assembly includes a pair of second seats
25 connected to the base, and the transmission shaft is rotatably connected to the second seats.
4. The transmission mechanism for a dynamic ornament as claimed in claim 3, wherein the first and second seats are symmetrically and oppositely connected to the base, each first seat includes a pair of guiding posts with a
30 pair of grooves being respectively defined in the inner sides of the guiding posts, and the mating portions of the transmission device are slidable along the grooves.

5. The transmission mechanism for a dynamic ornament as claimed in claim 1, wherein the mating hole of the mating portion is elliptical.
6. The transmission mechanism for a dynamic ornament as claimed in claim 1, wherein a pair of slots is defined in opposite sides of the base for extension of
5 the connecting portions of the sliding set.
7. The transmission mechanism for a dynamic ornament as claimed in claim 2, wherein a plurality of openings with different sizes is defined in the first cover for allowing light to pass therethrough and saving material.
8. The transmission mechanism for a dynamic ornament as claimed in claim 1,
10 wherein the gear set includes a motor gear and a transmission shaft gear, the motor gear is fixed to the motor shaft of the motor, and the transmission shaft gear is fixed to the transmission shaft.
9. The transmission mechanism for a dynamic ornament as claimed in claim 8, wherein the gear set further includes an idler wheel which is rotatably
15 attached to an inner side of the transmission seat assembly and is mated with the motor gear and the transmission shaft gear.
10. The transmission mechanism for a dynamic ornament as claimed in claim 6, wherein the housing further comprises a second cover which is connected with the free ends of the connecting portions.
- 20 11. The transmission mechanism for a dynamic ornament as claimed in claim 2, wherein the housing is adapted to be received in a decorative casing of a dynamic ornament, and the receiving post of the first cover is adapted to connect with movable parts of the dynamic ornament.
12. The transmission mechanism for a dynamic ornament as claimed in claim
25 4, wherein the second seats are formed between the first seats, each second seat includes a support and a cap fixed to the support, and a shaft hole is defined between the support and the cap for receiving the transmission shaft.